Offre de post-doctorat

En français + en anglais

Intitulé du poste :

Post-doctoral researcher in fundamental mathematics

Niveau de recrutement souhaité

 Phd degree in fundamental mathematics

 Beginner

Date de début du recrutement

September   2026

Nombre de mois de CDD

12 to 24 months

Contexte (indiquer quelques lignes sur la thématique du projet)

This position is funded by the research project GALS   « Geometry and asymptotics of large surfaces » from the french ANR. The goal of this project is to study large surfaces from the point of view of geometry, topology and dynamics. We interpret the terminology « large surfaces » in two ways. First, as families of surfaces such that some geometric characteristics go to infinity, and on the other hand as surfaces such that some of these characteristics is already infinite.

The hired researcher will work with Barbara Schapira   at the mathematic departement IMAG, UMR CNRS 5149, at the University of Montpellier, in the research group Geometry, Topology, Algebra, in collaboration with   Anne Parreau, at the Institut Fourier, UMR CNRS 5582, University Grenoble Alpes, and more generally with the members of the ANR project GALS (https://gals.pages.math.cnrs.fr/).

Mission principale

Research on some of the thematics of the project, in geometry and dynamics in a broad sense, and for example on hyperbolic surfaces of infinite type, the study of geodesic currents, of their ergodic properties (entropy, mixing, …), the spaces of representations of surface groups of infinite type, their connected components, degeneracies, bordifications, convex projective structures…

Activités (liste)

* Research in mathematics, with redaction and publication of the results obtained in mathematical journals with pair review

* Interaction with other members of the project and the research group(s) of the math department(s)

* participation to the mathematic activities of the research project   GALS ;

* Participation to the seminar Darboux in Montpellier, to the activities of the research group (e.g. reading group), and possibly to the seminar « Théorie Spectrale et Géométrie » in Institut Fourier, in   Grenoble, and to the activities of the theme « 'Geometry and Topology » (e.g. reading group) .

* Diffusion of the results obtained (e.g. talks in seminars or (inter)national conferences).

Compétences requises

→ Ability to work in an independent and organized way
→ Ability to write mathematical articles
→ Presentation of the results obtained in seminar talks
→ Communication with other researchers in mathematics
→ French or english level C1 if possible and B2 at least

Mathematical skills : A broad and solid culture in geometry and dynamics, with for example specializations in hyperbolic dynamics, ergodic theory, entropy, mixing, geodesic flows, or geometric structures on manifolds, negatively curved geometry, Hilbert geometry, Teichmuller spaces and generalizations, Anosov representations, character varieties and their compactifications, …

Niveau de diplôme

Phd in fundamental mathematics

Date de fin de publication de l'offre

28 february 2026

Mails pour la réception des candidatures

Barbara Schapira, Professor, IMAG, University of Montpellier
  Mail : Barbara.schapira@umontpellier.fr
Anne PARREAU, Associate Professor, Institut Fourier, Univ Grenoble-Alpes
  Mail : Anne.Parreau@univ-grenoble-alpes.fr

Documents à transmettre pour candidater

CV, synthetic presentation of works and projects, letter of motivation, name of two persons that can recommand your application. R

Any other useful information.